EAST - [john1.wsp:1]

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EAST

L3: (58) "231013"
L4: (3) "10050417"
L5: (10) "1335944"
L6: (875234) encased or embedded or encapsulate or
L7: (234882) wax
L8: (284272) wax or waxes
L9: (727897) inert
L10: (139) 521/132
L11: (8931) 16 same 17
L12: (4) 110 and 111
L13: (6) (("6,040,350.") or ("6,057,382.") or ("6,
L14: (73) (("6,040,350") or ("6,057,382") or ("6,0
L15: (40271) 16 and 18
L16: (6) 110 and 115
L17: (12165) 16 same 18
L18: (4) 110 and 117
L19: (12385) 16 same 19
L20: (1) 110 and 119
L28: (331222) polyurethane
L30: (466925) foam
L31: (410) 117 and 128 and 130
L32: (33020) "521".clas.
L33: (22) 131 and 132
Failed

Specific Gr. 1.13 Ult. Tensile Strength (ASRM D-412) 47 MPa Ult. Elongation (ASTM D-412) 530% OI 22 UL-94 Rating at 2 mm thickness V2

(46) Melammonium pentate (MP) and encapsulated ammonium polyphosphate (APP) had average particle size of about 20 microns. The ammonium polyphosphate used was Exolit 462 from Hoechst that is believed to have the formula (NH.sub.4 PO.sub.3).sub.700 which was encapsulated with about 10% by weight melamine-formaldehyde resin, based on the weight of encapsulated resin. This phosphate was of the Form II structure, and had an average particle size of about 25 microns. The melammonium pentate used was micronized Incindex 1699, previously available from Borg Warner, and currently available as CN-329 from Great Lakes Chemical. The melammonium pentate had an average particle size of about 15 microns. The triaryl phosphate was Kronitex 100, available from FMC Corp. The titanium dioxide pigment was Tioxide R-FC6, available from Tioxide America. The wax lubricant was a montan wax ester, specifically Wax E, available from Hoechst and, the UV stabilizer was a benzotriazole, Tinuvin 328, obtained from Ciba-Geigy.

(47) Density of the encapsulated ammonium polyphosphate was 1.88 g/cc versus 1.94 g/cc for the unencapsulated form. Density of the polyurethane resin was 1.13 g/cc, density of the melammonium pentate was 1.67 g/cc, density of the triaryl phosphate was 1.16 g/cc, density of the pigment was 4.10 g/cc, density of the wax lubricant was 1.01 g/cc, and the density of the benzotriazole was 0.91 g/cc.

BRS form S&R form Image Text HTML

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval C	Inventor	S	C	P		3
12	☐	☐	US 6479560 B2	20021112	36	Foaming compositions and methods for making and using	521/130	521/135; 521/178;		Freitag; James W. et al.	☑	☐	☐	☐	☐
13	☐	☐	US 5621015 A	19970415	9	Process for the treating of surfaces of thermoplastic	521/76	427/212; 521/57		Garcia; Rodrigo A. et al.	☑	☐	☐	☐	☐
14	☑	☐	US 5611962 A	19970318	10	Production of encapsulated chemical foaming	524/320	264/122; 264/178R;		Garcia; Rodrigo A. et al.	☐	☐	☐	☐	☐
15	☐	☐	US 5585412 A	19961217	5	Process for preparing flexible CFC-free	521/126	252/182.24; 252/182.25;		Natoli; Frank S. et al.	☑	☐	☐	☐	☐
16	☐	☐	US 4670483 A	19870602	7	Flame retardant polyurethane compositions	523/179	521/107; 521/165;		Hall; Dale R. et al.	☑	☐	☐	☐	☐
17	☐	☐	US 4666949 A	19870519	6	Thermochromic polyurethane foam	521/114	521/124; 521/125;		Shimizu; Goro et al.	☑	☐	☐	☐	☐
18	☐	☐	US 4008350 A	19770215	5	Visco-elastic material comprising a polymeric foam	521/54	2/239; 427/393.5;		Crawford; George H. et al.	☑	☐	☐	☐	☐
19	☑	☐	US 3660849 A	19720509	8	DEEP SUBMERGENCE DIVING SUIT AND INSULATIVE MATERIAL	2/2.15	2/2.16; 428/313.9;		Jonnes; Nelson et al.	☐	☐	☐	☐	☐
20	☑	☐	US 3252775 A	19660524	13	Foamed polyurethane abrasive wheels	51/296	264/54; 51/295;		BERNE TOCCI-GUILBERT	☐	☐	☐	☐	☐
21	☑	☐	US 3129270 A	19640414	5	Method of molding polyurethane foam articles	264/54	264/327; 425/817R;		HOOD BRUCE G	☐	☐	☐	☐	☐
22	☑	☐	US 2927876 A	19600308	3	Article comprising a cellular core and sheath	428/160	2/DIG.9; 264/259;		HANS-WILLI PAFFRATH et al.	☐	☐	☐	☐	☐

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